Olli Saari
Universitat Politècnica de Catalunya, Barcelona, Spain

Quantitative characterizations of weights and parabolic boundary value problems

Weights (non-negative locally integrable functions) satisfying a reverse Hölder condition are important in the study of harmonic measure and boundary value problems for elliptic and parabolic partial differential equations. In this talk, I will discuss a quantitative version of a Carleson measure characterization of reverse Hölder weights (originally found by Fefferman, Kenig and Pipher in the 90s) and its application to elliptic measure. In addition, I will explain extensions and modifications of the results needed in the analogous theory for parabolic measures.

This is based on joint work (and work in progress) with Simon Bortz and Moritz Egert.